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METHOD OF MANUFACTURING UNVULCANIZED ADHESIVE WATERPROOF SHEET AND CONSTRUCTION METHOD USING THE SAME

This application relies for priority upon Korean Patent Application No. 1999-50626, filed on November 15, 1999, the contents of which are herein incorporated by reference in their entirety.

FIELD OF THE INVENTION

The present invention generally relates to a method for manufacturing of an unvulcanized adhesive waterproof sheet and a construction method using the sheet. Particularly, the present invention relates to a method of manufacturing an unvulcanized adhesive waterproof sheet for waterproofing of a cut and cover tunnel, an underground building structure, or a concrete structure such as a building wall or an underground driveway. And, particularly, the present invention relates to a construction method using the sheet.

BACKGROUND OF THE INVENTION

As civil and construction technologies have progressed, complex and difficult construction methods can now easily be accomplished. However, defects often occur in waterproof construction situations. The defects cause water leakage and flooding. Moreover, the defects can cause a completed structure to sustain damage and lead to structural deterioration. Accordingly, a waterproof construction is important in the civil and construction technologies. At present, it is desirable to produce excellent waterproof materials which can exert a continuous and perfect waterproof function without subsequent need for maintenance or replacement.

Accordingly, a penetrating silicon waterproof agent, a rubberized asphalt sheet, a water soluble rubberized asphalt paint (aqueous paint film waterproof), a vulcanized rubber (boiled rubber) sheet, and an organic solvent rubber paint (oil paint film waterproof) have been used.

Since cement strength has improved to over 400kg/cm² due to development of the construction technology, penetration waterproof agent has proved to be a dispreferred material.

A rubberized asphalt sheet is cheap, and performs well a short time after installation when waterproofed. Unfortunately, the elasticity of the rubberized asphalt sheet degrades

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